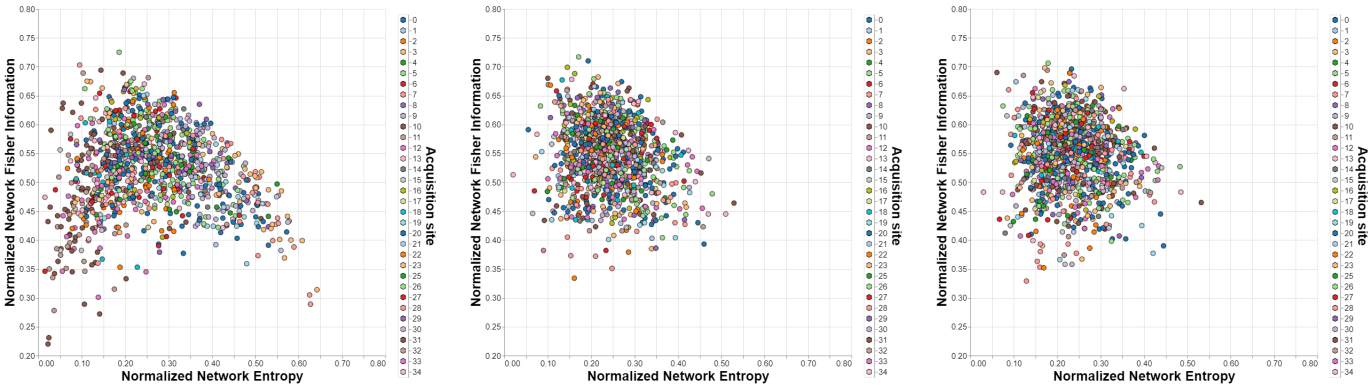
Supplementary Material for Assessing Multi-Site rs-fMRI-Based Connectomic Harmonization Using Information Theory

CODE

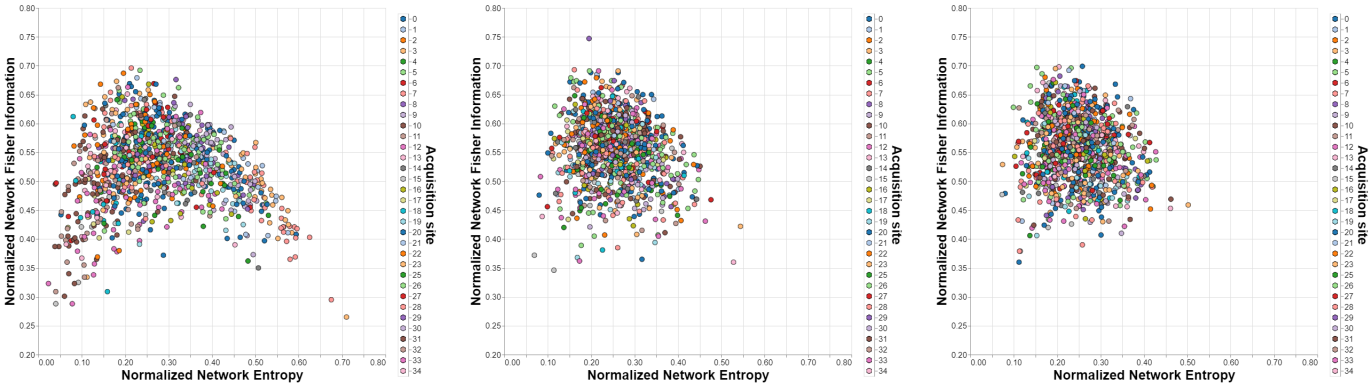
The code used in the elaboration of this work is available in the form of Jupiter Notebook at https://github.com/FacuRoffet99/HarmonizationEvaluation.

FIGURES



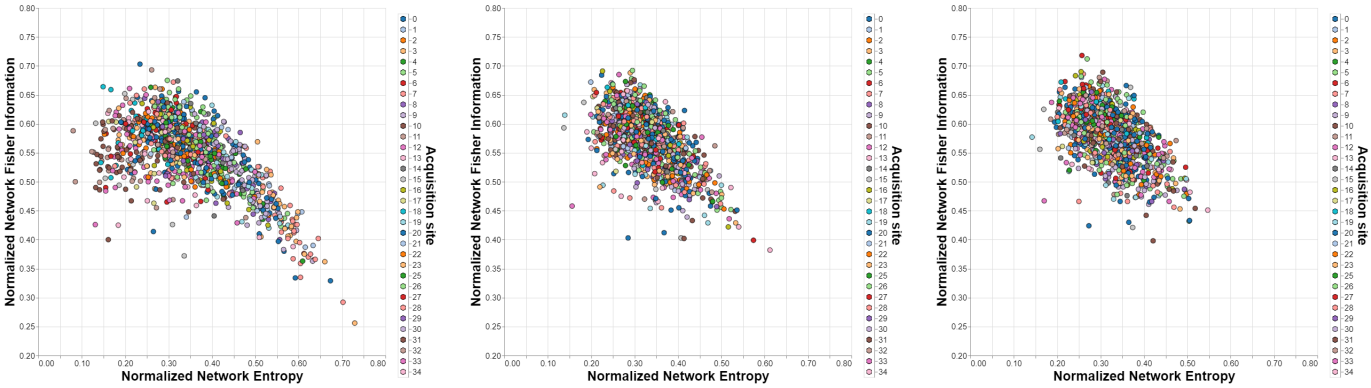
(a) Unharmonized (b) ComBat (c) CovBat

Figure S1: Shannon-Fisher planes for IMPAC/MSDL with different harmonization methods.



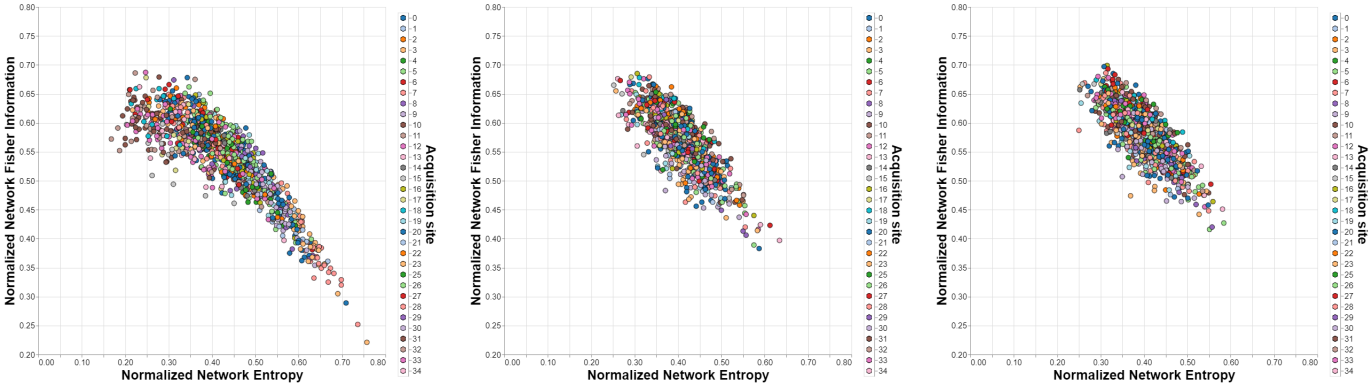
(a) Unharmonized (b) ComBat (c) CovBat

Figure S2: Shannon-Fisher planes for IMPAC/Harvard-Oxford with different harmonization methods.



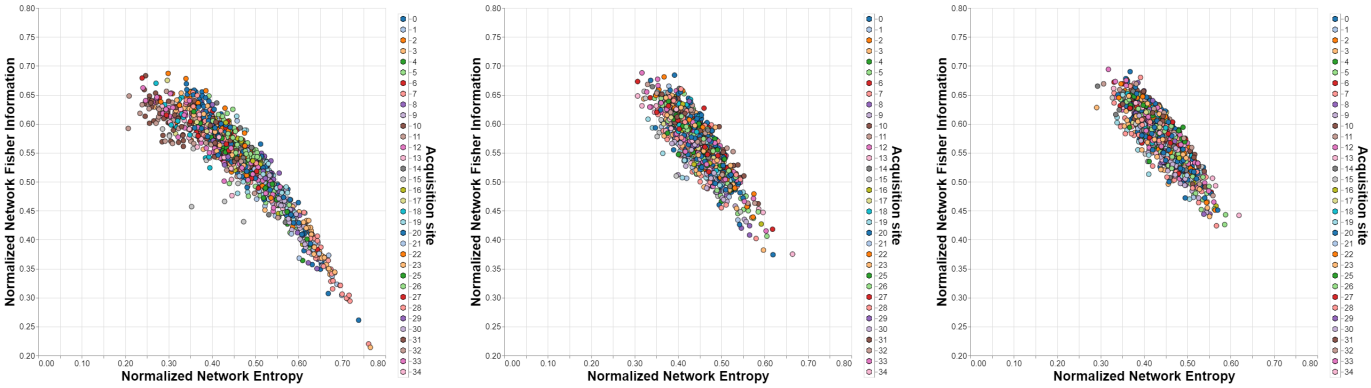
(a) Unharmonized (b) ComBat (c) CovBat

Figure S3: Shannon-Fisher planes for IMPAC/Basc064 with different harmonization methods.



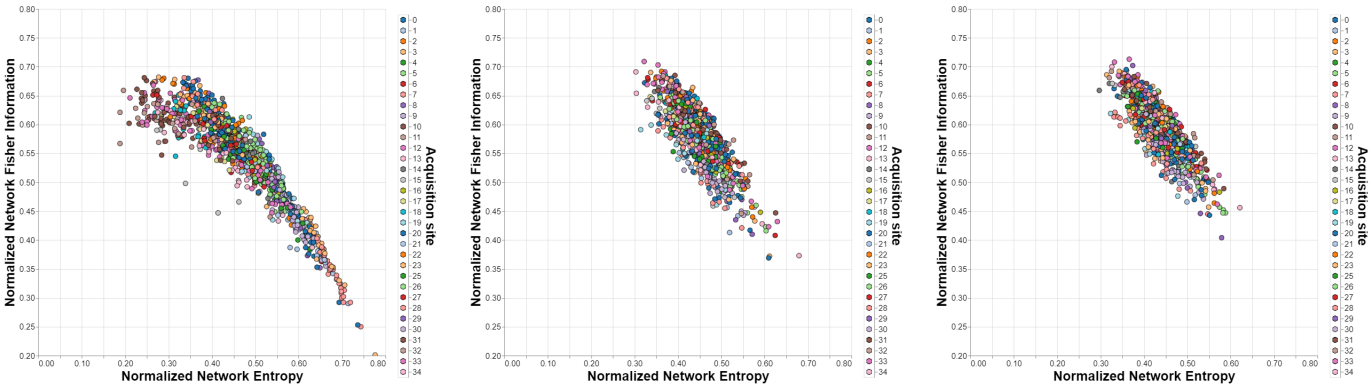
(a) Unharmonized (b) ComBat (c) CovBat

Figure S4: Shannon-Fisher planes for IMPAC/Basc122 with different harmonization methods.



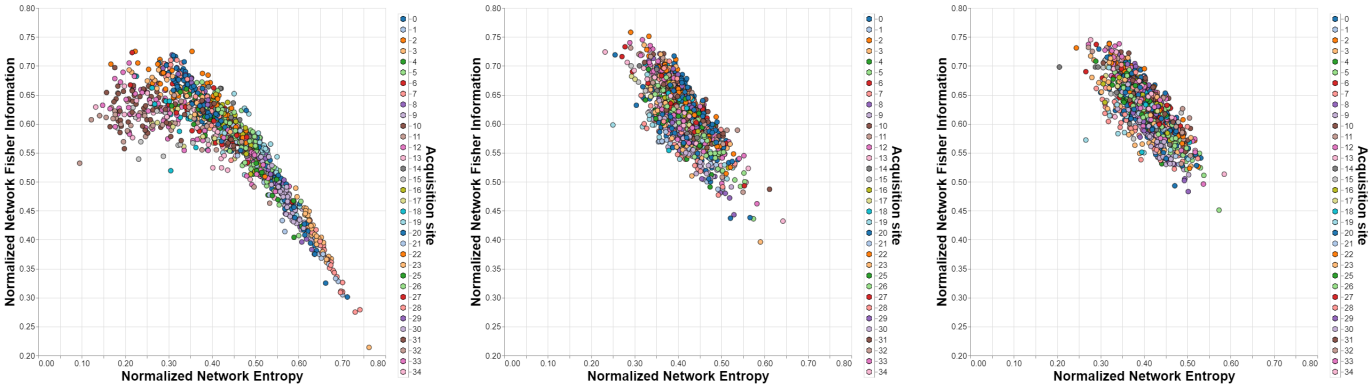
(a) Unharmonized (b) ComBat (c) CovBat

Figure S5: Shannon-Fisher planes for IMPAC/Basc197 with different harmonization methods.



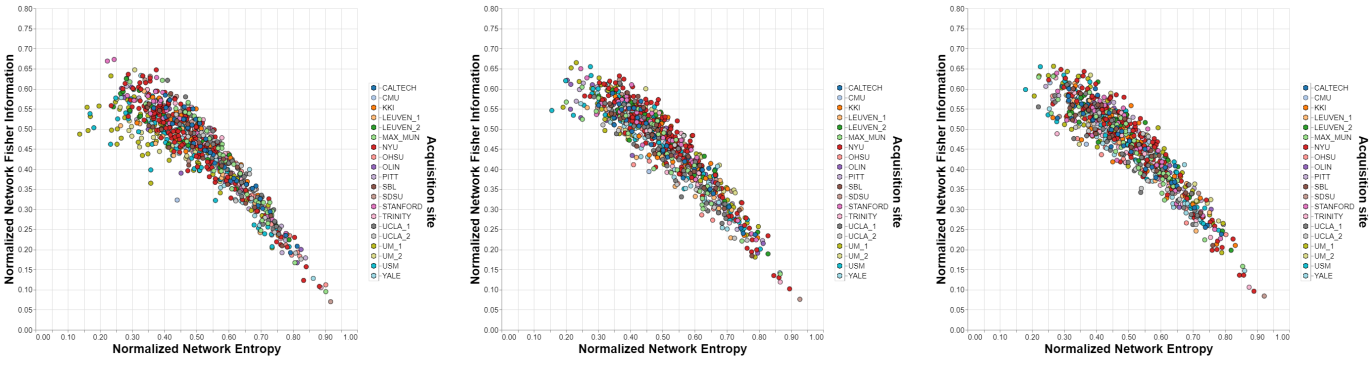
(a) Unharmonized (b) ComBat (c) CovBat

Figure S6: Shannon-Fisher planes for IMPAC/Craddock with different harmonization methods.



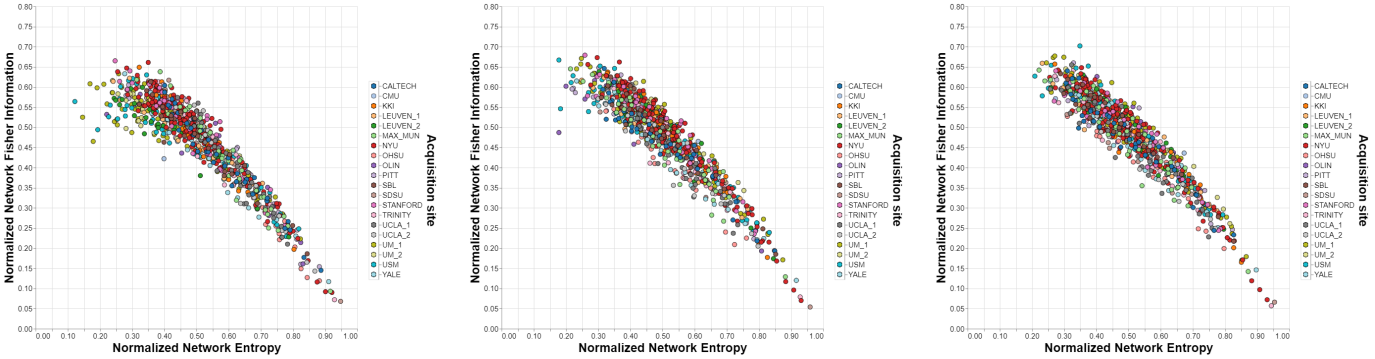
(a) Unharmonized (b) ComBat (c) CovBat

Figure S7: Shannon-Fisher planes for IMPAC/Power with different harmonization methods.



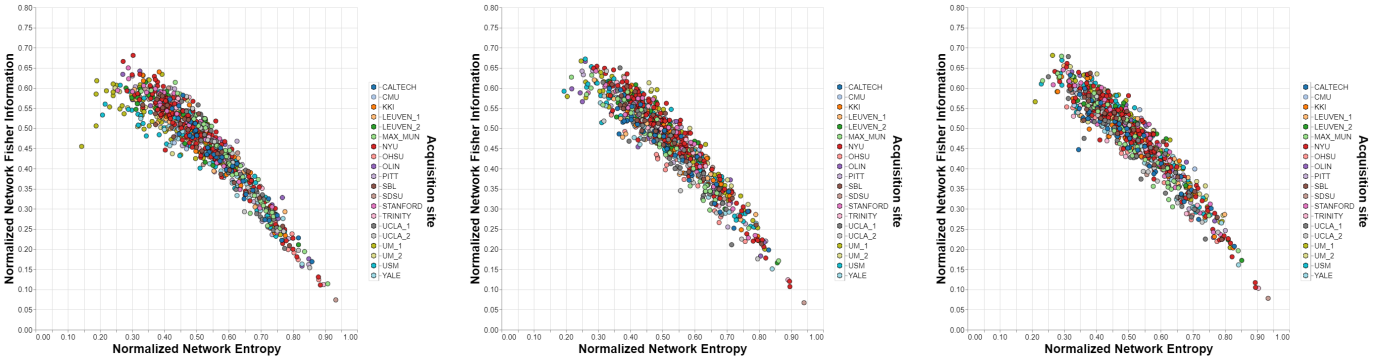
(a) Unharmonized (b) ComBat (c) CovBat

Figure S8: Shannon-Fisher planes for ABIDE/Talaraich-Tournoux with different harmonization methods.



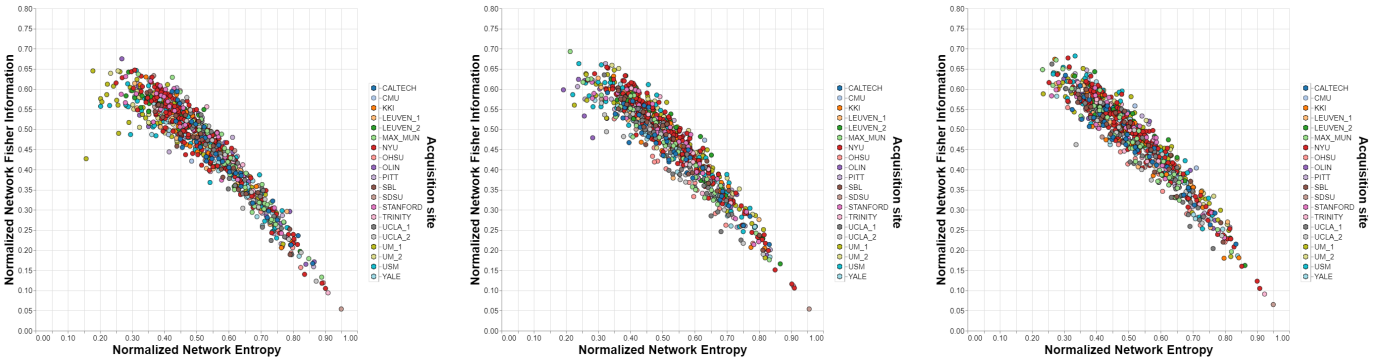
(a) Unharmonized (b) ComBat (c) CovBat

Figure S9: Shannon-Fisher planes for ABIDE/Harvard-Oxford with different harmonization methods.



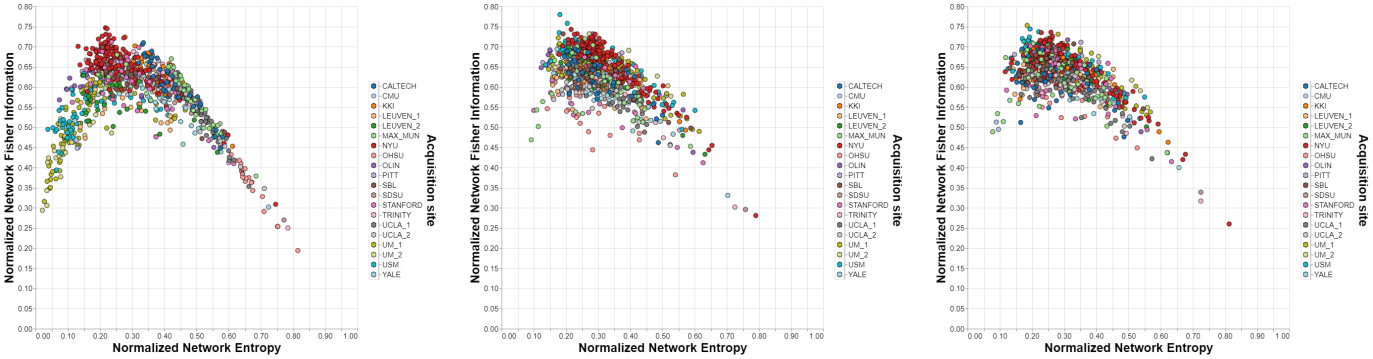
(a) Unharmonized (b) ComBat (c) CovBat

Figure S10: Shannon-Fisher planes for ABIDE/AAL with different harmonization methods.



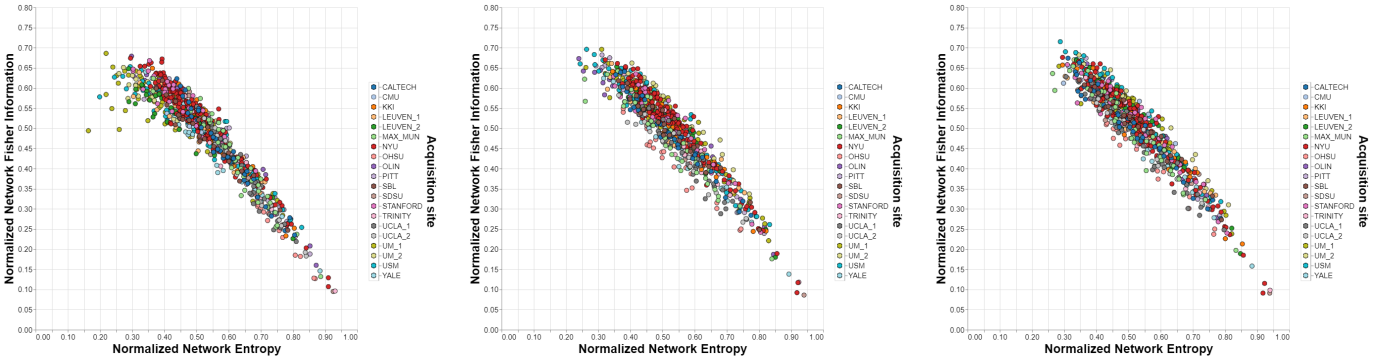
(a) Unharmonized (b) ComBat (c) CovBat

Figure S11: Shannon-Fisher planes for ABIDE/Eickhoff-Zilles with different harmonization methods.



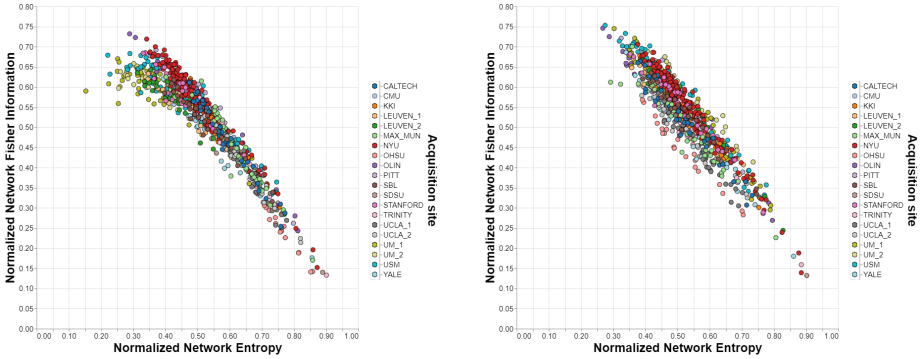
(a) Unharmonized (b) ComBat (c) CovBat

Figure S12: Shannon-Fisher planes for ABIDE/Dosenbach with different harmonization methods.



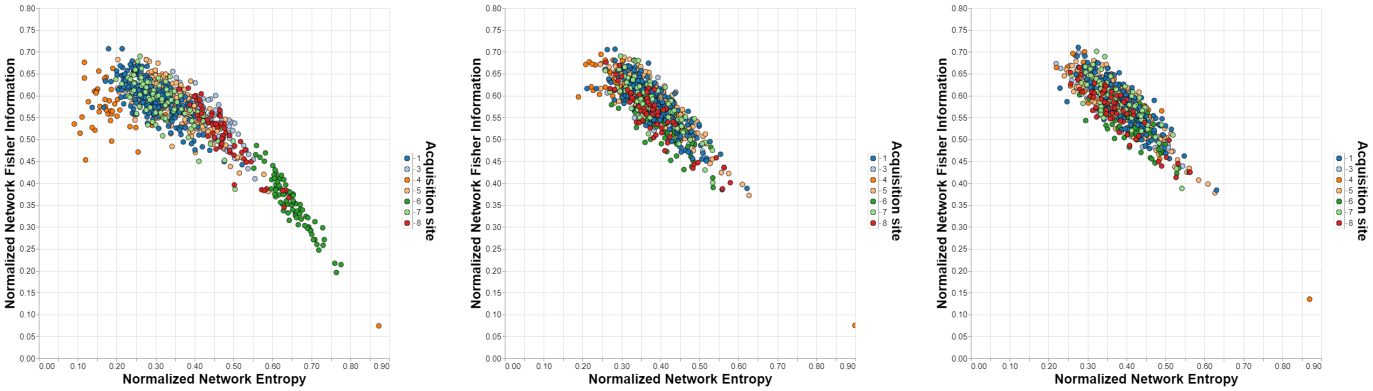
(a) Unharmonized (b) ComBat (c) CovBat

Figure S13: Shannon-Fisher planes for ABIDE/Craddock (200 ROIs) with different harmonization methods.



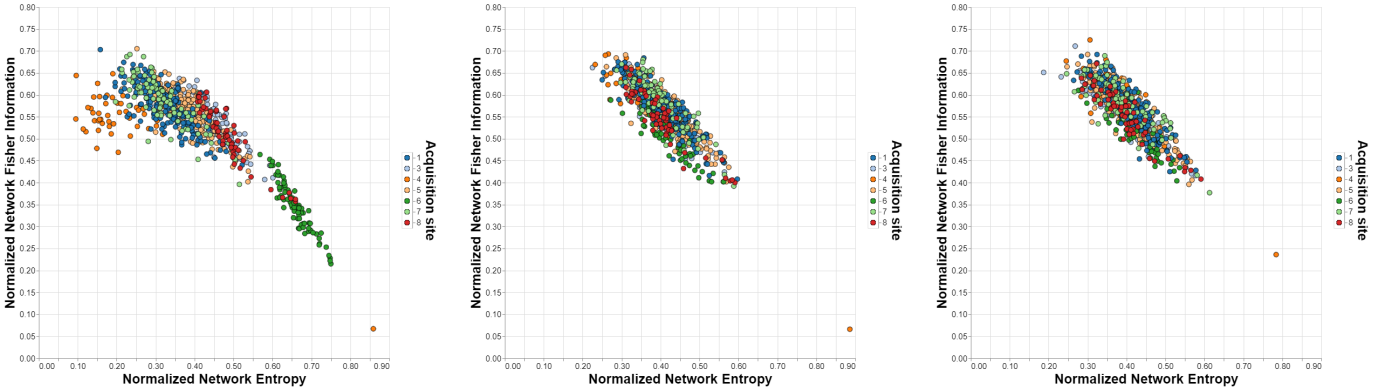
(a) Unharmonized (b) ComBat

Figure S14: Shannon-Fisher planes for ABIDE/Craddock (400 ROIs) with different harmonization methods.



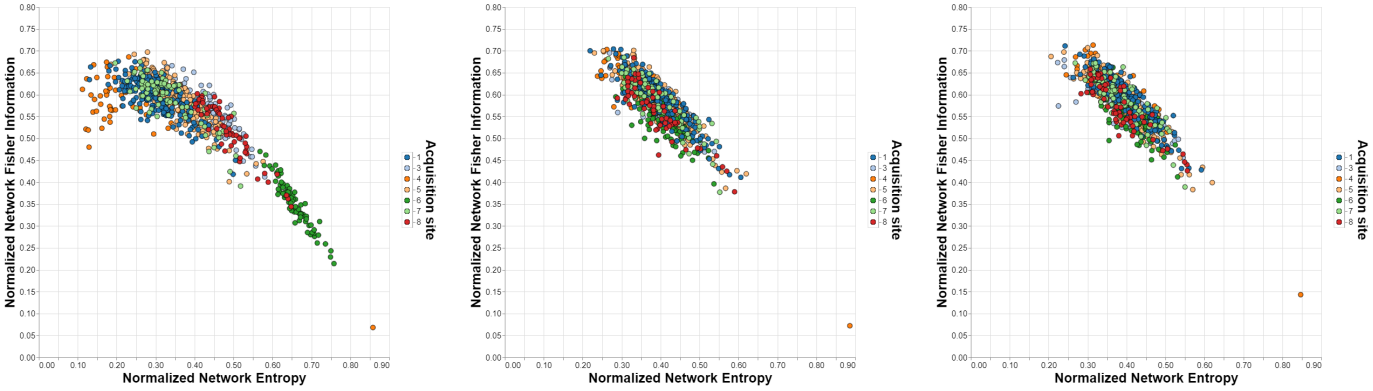
(a) Unharmonized (b) ComBat (c) CovBat

Figure S15: Shannon-Fisher planes for ADHD-200/Talaraich-Tournoux with different harmonization methods.



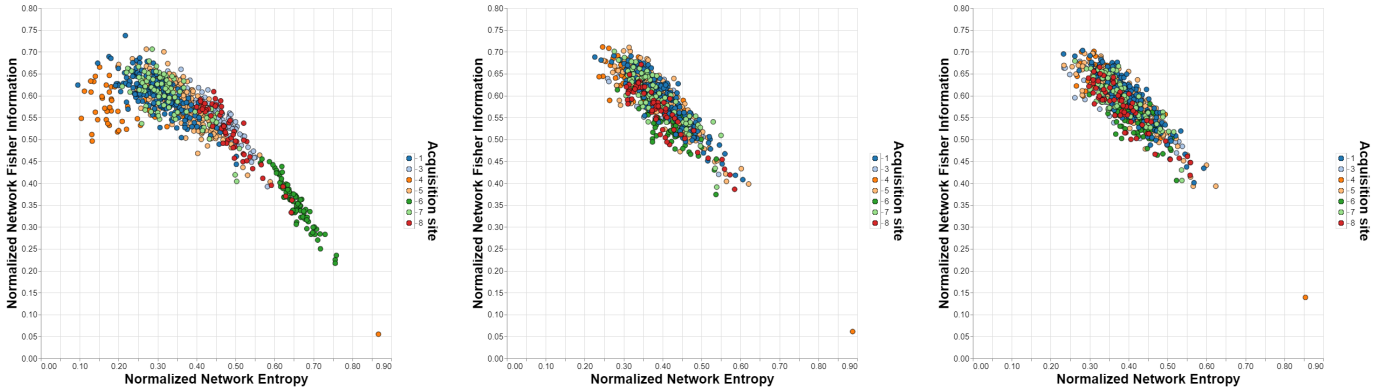
(a) Unharmonized (b) ComBat (c) CovBat

Figure S16: Shannon-Fisher planes for ADHD-200/Harvard-Oxford with different harmonization methods.



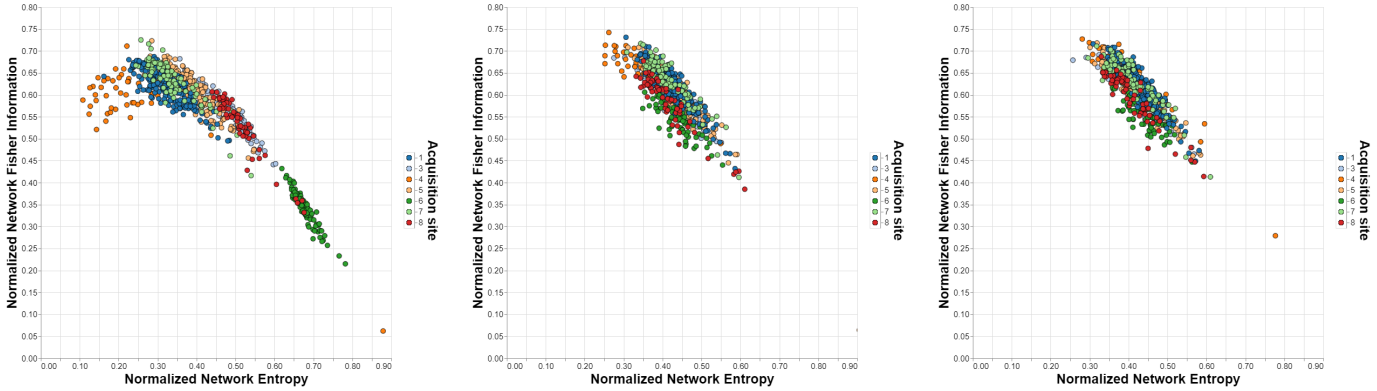
(a) Unharmonized (b) ComBat (c) CovBat

Figure S17: Shannon-Fisher planes for ADHD-200/AAL with different harmonization methods.



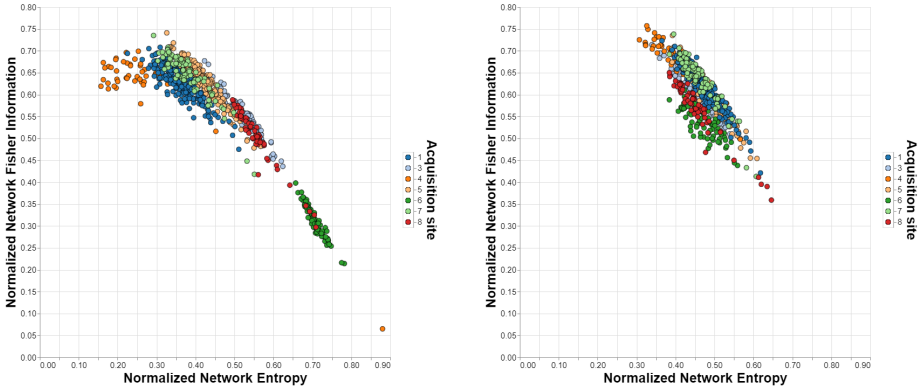
(a) Unharmonized (b) ComBat (c) CovBat

Figure S18: Shannon-Fisher planes for ADHD-200/Eickhoff-Zilles with different harmonization methods.



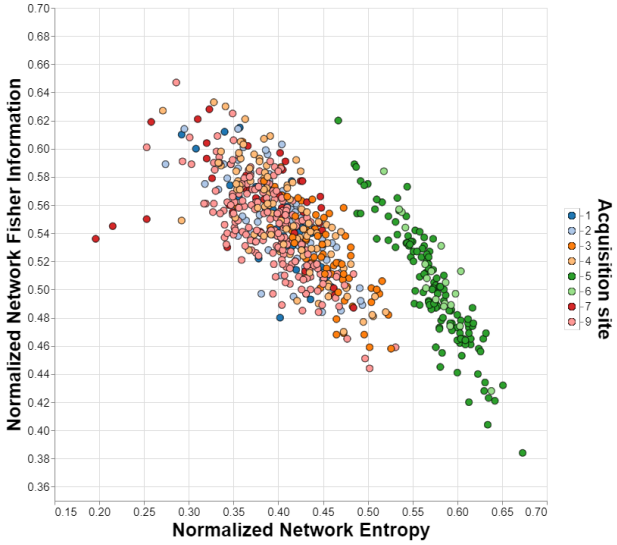
(a) Unharmonized (b) ComBat (c) CovBat

Figure S19: Shannon-Fisher planes for ADHD-200/Craddock (200 ROIs) with different harmonization methods.

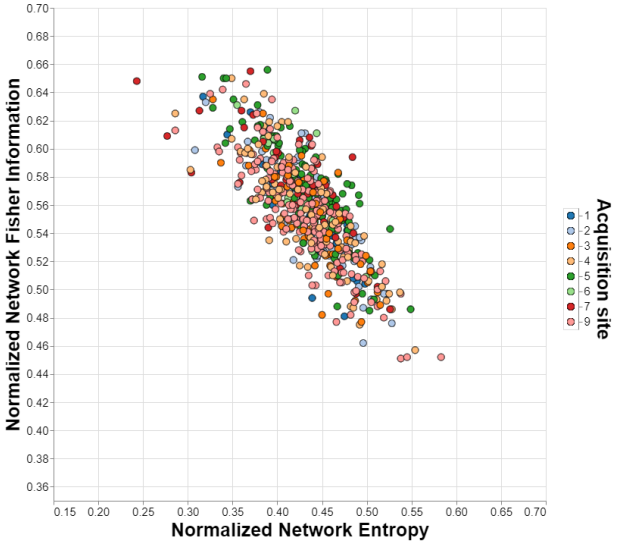


(a) Unharmonized (b) ComBat

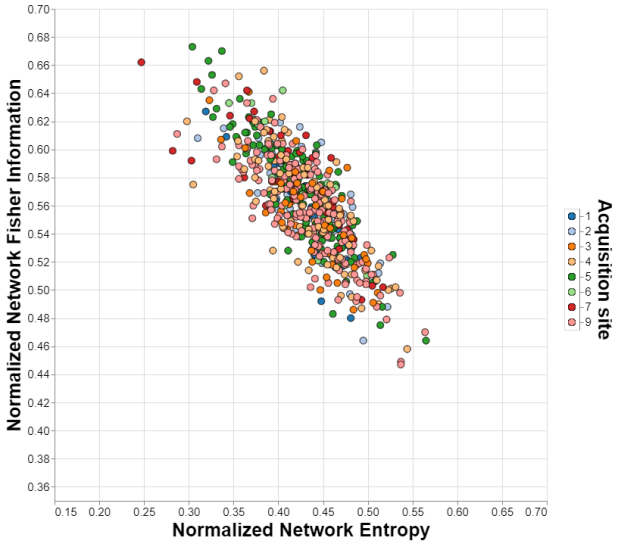
Figure S20: Shannon-Fisher planes for ADHD-200/Craddock (400 ROIs) with different harmonization methods.



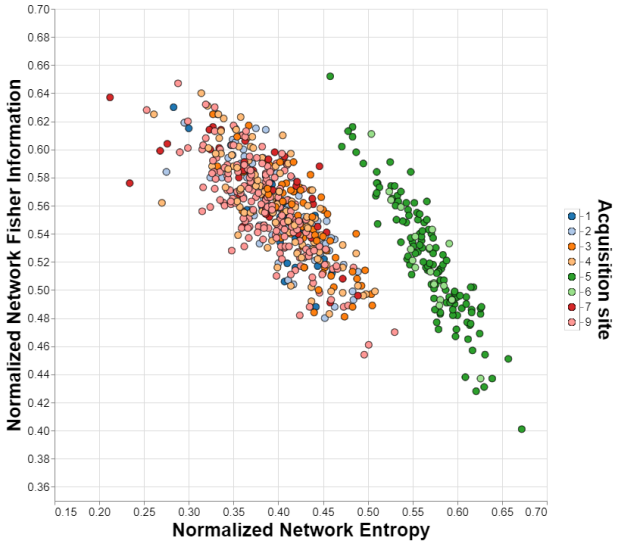
(a) Unharmonized



(b) ComBat



(c) CovBat



(d) Traveling-subject

Figure S21: Shannon-Fisher planes for SRPBS with different harmonization methods.